Downtown Geometry

Fountain Square Park

They call this Fountain Square Park. Is it really a square?

How can you prove it? (How do you know?)

How many children does it take to go around the fountain?

If we didn't have enough children what could we do?

Look at one of the flower beds.

How are they planted?

Draw this flower bed.

Is there any math here?

Abstract Art & Fountain Square Park

* **Optional:** Mini Lesson/Review on Abstract Art (Could be done prior to field trip)

Examples:

Pablo Picasso

You've been doing it a long time...

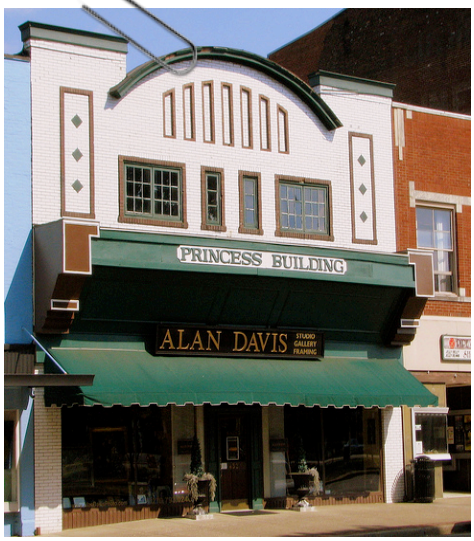
Definition of Abstract Art: an abstract genre of art; artistic content depends on internal form rather than pictorial representation **(What on earth does that mean??)**

Take a look at the photos on the page create your own working definition of abstract art. You may want to think about these two questions. What realistic details do you see in the drawing? What makes the drawings abstract or unrealistic?

Abstract Fountain Square, Oh my.

Take a look at the three buildings listed below and think...

What if you woke up in a dream world where everything was abstract. All normal and natural lines were replaced with only regular 'ole two dimentional figures. How would these buidlings look?



Princess Building

Capitol Arts Building

Pots Place Building

Create an abstract illustration of the building you chose below using any 2D regular figure that you could describe using geometry vocabulary.

Find three to four shapes (regular polygons, if possible) your abstract drawing and circle or outline them with your pencil.

Using the shapes you circled and thinking of our geometry vocabulary words we've studied, write at least one of each type of statement below:

Some of these shapes _____

All of these shapes _____

None of these shapes _____

Find a friend who used a vocabulary word you didn't. What word did he or she use?

Write a none of these, some of these, or all of these statement using that word.

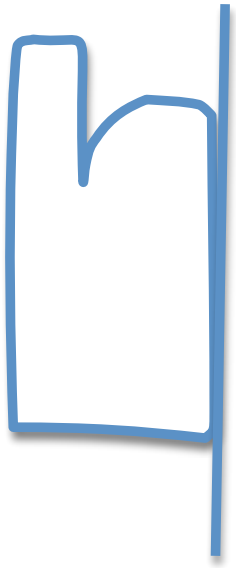
Take another look at your illustration. Compare your illustration to the actual object. What similarities do you find in the two objects? What differences do you find?

Drawing Characteristics Only	Building Characteristics Only
Similarities	

Other Math Geometry Questions:

Elijah drew the picture below in his learning log and folded it on the line of symmetry.

1. What buidling at the square was he most likely looking at?



2. He sketched another abject with two lines of symmetry. What could he have drawn?

3. Elijah said the fountain has two lines of symmetry, is he correct? Prove it to him.

Other Math Strands Questions:

How many benches are there in the park?

How many people could sit down at one time?

(How could we figure it out?)

How many benches would we need for everyone in our class to sit down? (Teachers: Let's just say we have 20 people in our class.)

Justify your answer by showing your work. (Prove It!)

What math strategy did you use? (Repeated addition, multiplication, division, groups of pictures, etc...

Find a friend that solved it in a different way and compare your answers. Does solving the problem in a different way give you a different answer?